

1/35

1 2 3 4



Fig. 1

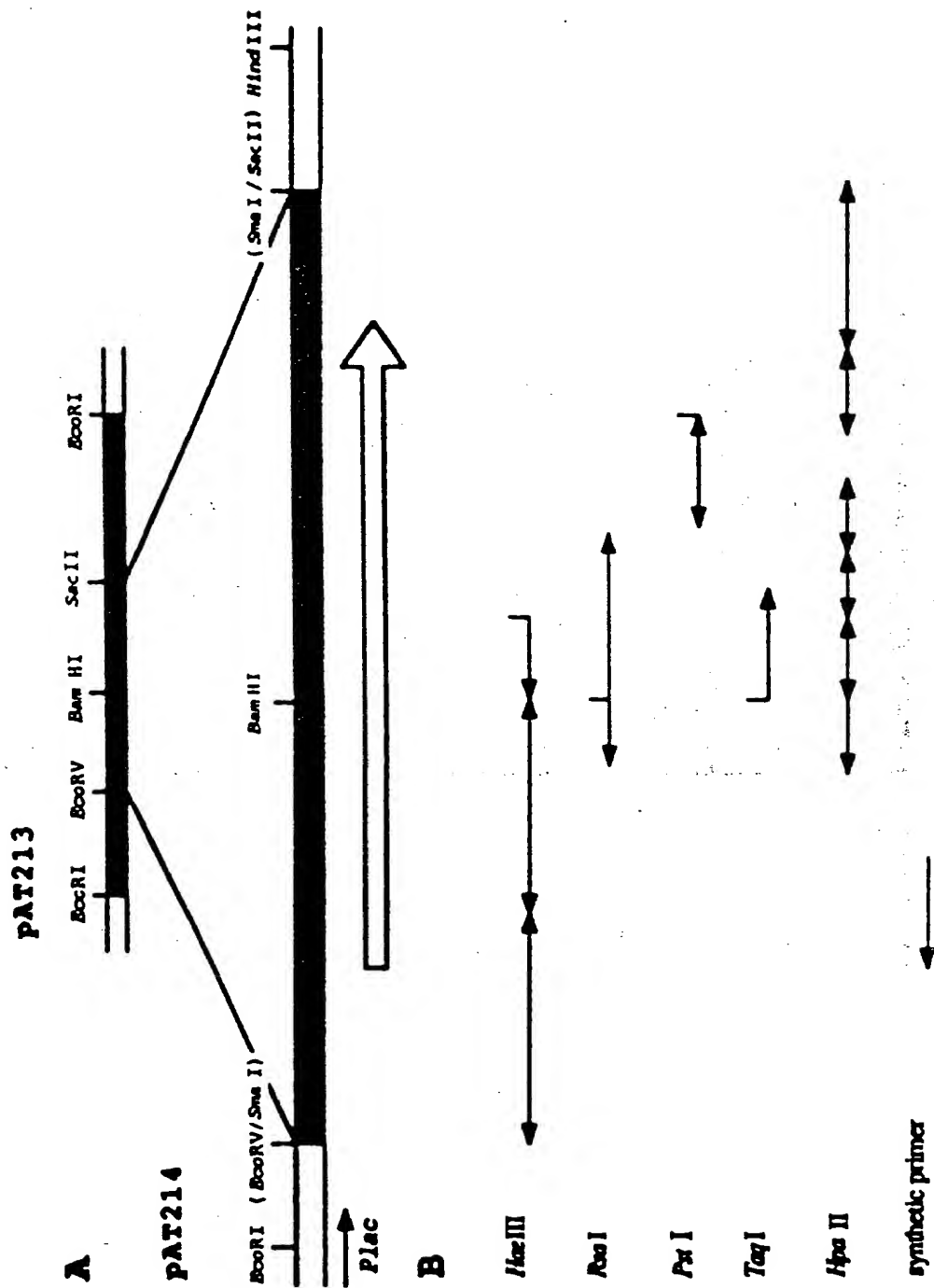


Fig. 2

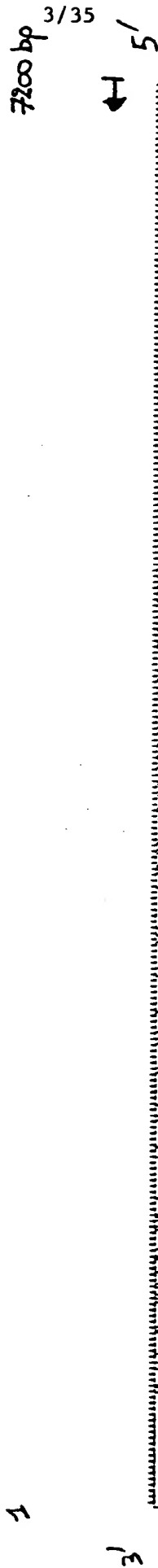
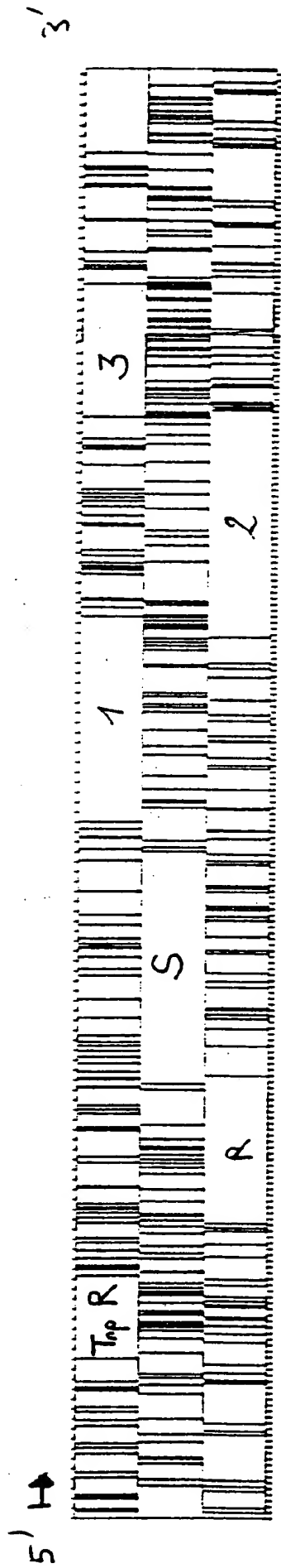
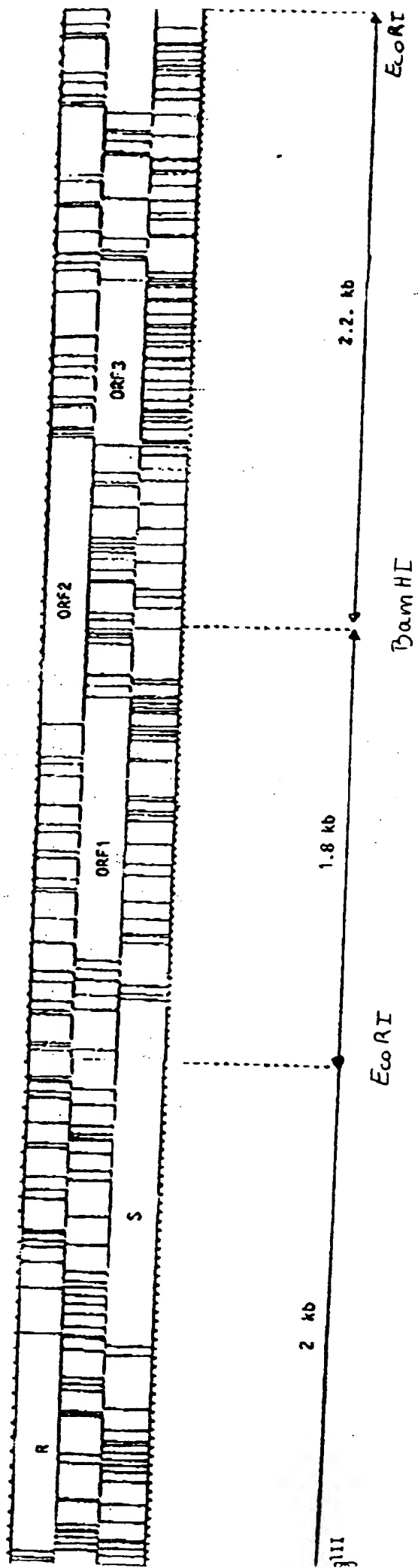


Fig. 3 (1/2)



AAGCTTTTCTTTTGGCTCATTTGTTAGAGATTTACTAACCGTATTAAATAGCTTCTTTTC
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TTTGTTTTCTTAGAAATCTATGCATTCATGCTATTCGATATTCACCTCAGGGTAAAGTTAC
CAAAGCTAATTGATGAAGGTACTTAAATGTCTTCAATGATCCCAAGTGATTTTCCCTTGAGG
AAAGTCGTATTCACCTTCGAAATTTCTTCAATGATCCCAAGTGATTTTCCCTTGAGG
ATAATGATCAAGCGAGGTGGACTAACCAATCTGTTTCGATATATATGTTATGACCGA
ATCTGGGATGCTTTTGATATGAGTGATGGCCAACCGGGATACCGAAGAACAGCTAATTG
AACAGCAAAATCCTAAACGGTTTCTTCCCTCCCTTCTTAACTATTTCTAAATCCCG
TTTGGAAAAAGTGAGGTCCCGAGTATCCATTCATCTTCAGGGATTTGCAATAAAGC
CTGTCTCTGTTCCGCTAAGCAATCTCTACCTCTCGCAATTTTCATTTCAGTATCATTC
CATTCTGTATTTTCAATTTATAGTTCAATATATATATCAATAGAGTGTACTCTATTGAT
ACAAATGTAGTAGACTGATAAAATCATAGTTAAGAGCGTCTCATAGACTTGTCTCAAAA
ATGAGGTGATATTTTGGGAAATCGGTTATATTCGTGTCAGTTCGACTAACCGAATCC
TTCAGAGACAAATTCAGCAGTTGAACGAGATCGGAATGGATATATATAAGAGAAAGTTT
CAGGAGCAACAAGGATCGCGAGCACTTCAAAAGTGTAGACGATTTACAGGAAGATG
ACATCATTTATGTTACAGACTTAACCGAATCACTCGTAGTACACAGATCTATTTGAAT
TAATCGATAACATACGAGATAAAGGCAAGTTTAAATCACTAAAGATACATGGCTTG
ATTTATCAGAGATATCCATACAGCCAAATTTCTTAAATGCTGTAATGGCTGGTTAACCC
AATTAGAGCGAGATCTTATTCGGATGAGACACGTTGAAGGATGAAATGGCTAAGAAAG
AAGGAAAGTTTAAAGGTGATTAAGAGATCATATAAAATCAGCAGGAATGAATTATG
CGGXAAAGCTATATAAGAGAGGAAATATGACTGTAAATCAAAATTTGTGAATTAATAAT
GTATCTAGGGCTTCATTTATACAGGAAATTTATCAGAGTGAAATAATTAGCCATTCTGTATT
CCGCTAATGGGCAATATTTTAAAGAGAAAGAACTATATAAATAATTACAGCCTCCT
AGCGATGCGGAAAGCCCTTTTGATAAAAAAGAAATCATCATCTTAAGAAATTTCTAGTCA
TTTATTATGTAAATGCTTATAAATTCGGCCCTATATCTGATAAATTATTAGGGCAAC

Fig. 4 (1/5)

TTATGTGAAGGGTGATAACTATGAGCGATAAAATACTTATTGTGGATGATGAACATGAA
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ACCGCCAAAGAGCATTTGGATGTATAGACAAGTCTGAGATTGACCTTGCCATATTGGAC
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AAGGCCAGTTGCGCGATACAAAATTCAGTGSAGTAAAGGAGCAGAACGAAATGTT
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CAGTTATCCCTTACTCCACCGAGTTTCAATACTGCGAATCCTCTGTGAACAGAGGG
AATGTGGTTAGCTCCGAGCTGCTATTTTCATGAGATATGGGCGACGATATTTTCAGCAAG
AGCAACAACACCATCACCGTGCTATATCCGGCATTTGCGGAAAAATGACGACCCATT
GATAATCCGAATATATAAAACGGTATGGGGGTTGGTTATAAATTAATAAATAAAAA
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AGCAATTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT
CTTAAGTATTTGGAAACCAATATGACTTAATCACCTGGACGGATGAATTATATCA
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TATTCTATGTCGGTCATGCTTTCAGAAATTCGCAAAATAGTTTGACGAGATAAATACCGG
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GCTGGCCGAACAAAGAAATGACGTTGTTATGTACTTGGCGCAGGATATAAAGCGCC
CCTTACATCCATTATCGGTTATTTGAGGCTGCTTGACGAGGCTCCAGACATGCCGGTAGA
TCAAAGGCCAAGTATGTGCATATCAGCTTGACAAAGCGTATCGACTCGAACAGCTAAT
CGACGAGTTTTTGAGATTACACGGTATAACCTACAAACGATACGCTAACAAACGCA
CATAGACCTATACATATGCTGGTGCAGATGACCGATGAATTTATCCTCAGCTTTCGGC
ACATGGAAACAGGCGGTTATTCACGCCCGGAGGATCTGACCGTGTCCGGCACCCTGA

Fig. 4 (2/5)

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TAAACTCGGAGAGTCTTTAACACACATTTTGAAAAACGCCGCTGCATACAGTGAGGATAA
CASCATCATTGACATTACCGGGGCTCTCCGGGGATGTGGTGTCATCGAATTCAGAA
CACTGGAGCATCCCAAAGATAAGCTAGCTAGCCATATTTGAAAAGTTCTATAGGCTGGA
CAATTCTCGTTCTCCGATACGGGTGGCGGGACTTGGATTGGCGATTGCAAAAGSAAAT
TATTGTTACGATGGAGGGCAGATTACGCGGAAGCTATGATAACTATACGACGTTTAG
GGTAGAGCTTCCAGGATGCCAGACTTGGTTGATAAAGGAGGTCCTAAGAGATGTATAT
AATTTTTAGGAAATCTCAAGGTATCTTTACTTTTCTTAGGAAATTAACAAATTTAAT
ATTAGAAACGGCTCGTTCTTACACGGTAGACTTAATACCGTAAGAACGAGCCGTTTTCG
TTCCTTCAGAGAAAGATTTGACAAGATTACCAATGGCATCCCGTTTATTTGGTGCCTTT
CACAGAAAGGTTGGTCTTAATTATGAATAACATCGGCATTACTGTTTATGGATGTGAGC
AGGATGAGGCAGATGCAATCCATGCTCTTTCGCCCTCGCTTTGGCGTTATGGCAACGATAA
TTAACGCCAACGTGTCGGAATCCAACGCCAATCCGGCCCTTTCAATCAGATGTATCAGTG
TGGGACATAAATCAGAGATTTCGCCCTCTATTCTTCTTGGCTGAAGAGAGCCGGTGGA
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TGGGCATCACTGTCGACAAATGTGGCGTACTGCCGGGATAGCGTTGCCGATTATACTATGA
TGCTAATTCTTATGGCAGTACGCAACGTAAATCGATTGTGCGCTCTGTGGAACACATG
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GAACGGGCCAGATAGGCAAGCGGTTATTGAGCGGCTGCGAGGATTGGATGTAAAGTGT
TGGCTTAGTTCGACGCCGAGTATAGAGGTAAACTATGTACCGTTTGATGAGTTGCTGC
AAATAGCGATATCGTTACGCTTCATGTGCGGCTCAATACGGATACGCACTATATTATCA
GCCACGAACAATACAGAGAAATGAGCAAGGAGCATTTCTTATCAATACTGGCGCGGTC
CACTTGATAGTACCTATGAGTTGGTTAAAGCATTAGAAACGGGAACCTGGCGGTGCCG
CATTGGATGTATTGGAGGAGGAGGAGAGTTTCTACTCTGATTGCACCCAAACCA
TTGATAATCAATTTTACTTAACCTTCAAGAGATTGCCTAACGTGATAATCACACCGCATA
CGGCCATTATACCGAGCAAGCGTTGCGTGATACCGTTGAAAAACCATTAACAACTGTT

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CAAATCAGGCTGCAGTACGGAATCTTTCGTATTCATCAGGAAGTCGAGCCGGAAGAGGC
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CAGGAACGCGCAGAAATAATAAGCGCTCGGCTGTAGAGGCTAGCCCGTGTGGAT
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GCTCTCATGCGGCAATGGAATATCATGCAATGAGCGCAAAATCGCAGACGTTTGC
GCTCCATCATGGAACACAGTGGGTTTGAGCATATAGCCTCGAATGGTGGCACTATGTAT
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GTTCTTAGGGAATTTATATAGTAGATAGTATTGAAGATGTAGGCGAGCGGATATTGC
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CAGGTTTATCAAGGAATCTGCTATTAAATCAATAGTAAATATCTGTCAGAGAGTG
TGAAGTCAGATATCGTGATTTATCTAAACATGACGAATTAATAATGGATACGGGTTGC
TTGATAGTAATATTTATATGTCAAAAGAAATAGCACAAATTTTCAGAGATGTCATG
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AGCAAAAGTGCTTTACCAAGAAATGGGGCTGAGTATGCCCTTACCAGCAGGTTATAGTG
AGCATAAATTCAGGTTTATCAGTATAGTATAGGATCAAGCTTGACGAAATGGAACGAGCCC
CTGAAGGAAAGTGGATAGAGAAATGCTTGGAAATACGGGTTCAATTTACGTTATCCAG
AGGACAAACAGAGTTAACAGGAATTC

Fig. 4 (5/5)

LysLeuPhePheLeuLeuIleCys***ArgPheThrAsnArgIleLys***LeuLeuPh
 SerPheSerPheCysSerPheValArgAspLeuLeuThrValLeuAsnSerPhePheSer
 AlaPheLeuPheAlaHisLeuLeuGluIleTyr***ProTyr***IleAlaSerPheGln
 AAGCTTTTCTTTTGTCTCATTGTTAGAGATTACTAACCGTATTAAATAGCTTCTTTTC

 SerHisCysProCysPheProHisHisSerPheLysCysSerAspSerArgGlnTyrAsn
 AlaIleAlaLeuAlaSerHisThrIleLeuSerSerValValIleAlaGlySerIleIle
 ProLeuProLeuLeuProThrProPhePheGlnVal*****GlnAlaVal***Phe
 AGCCATTGCCCTTGCTTCCCACACCATTCTTTCAAGTGTAGTGATAGCAGGCAGTATAAT
 100
 PheValPheSer***LysIleTyrAlaPheMetGln***MetAsnGlyIleThrIlePhe
 LeuPhePheLeuArgLysSerMetHisSerCysSerArg***MetAlaSerProPheSer
 CysPhePheLeuGluAsnLeuCysIleHisAlaValAspGluTrpHisHisHisPhePro
 TTTGTTTTTTCTTAGAAAATCTATGCATTCATGCAGTAGATGAATGGCATCACCATTTTC

 GlnSer***LeuMetLysValLeuLysCysHisSerIlePheThrGlnGlyLysSerTyr
 LysAlaAsn*****ArgTyrLeuAsnValIleArgTyrSerLeuArgValLysValThr
 LysLeuIleAspGluGlyThr***MetSerPheAspIleHisSerGly***LysLeuGln
 CAAAGCTAATTGATGAAGGTACTTAAATGTCATTCGATATTCCTCAGGGTAAAAGTTAC
 200
 LysValValPheThrSerAsnPhePheGlnMetIleProLysCysIlePheProLeuArg
 LysSerTyrSerLeuArgIleSerPheLys***SerGlnSerValPheSerLeu***Gly
 SerArgIleHisPheGluPheLeuSerAsnAspProLysValTyrPheProPheGluAsp
 AAAGTCGTATTCCTTCGAATTTCTTTCAAATGATCCCAAAGTGTATTTCCCTTTGAGG
 300

IleMetIleLysArgGlyTrpThrAsnThrAsnLeuPheArgTyrIleLeuTyrAspArg
 *****SerSerGluAspGlyLeuThrProIleCysPheAspIleTyrCysMetThrGlu
 AsnAspGlnAlaArgMetAsp***HisGlnSerValSerIleTyrIleVal***ProAsn
 ATAATGATCAAGCGAGGATGGACTAACACCAATCTGTTTCGATATATATTGTATGACCGA

IleTrpAspAlaPheAspMetSerValTrpProThrGlyIleProLysAsnSer***Leu
 SerGlyMetLeuLeuIle***ValTyrGlyGlnProGlyTyrArgArgThrAlaAsn***
 LeuGlyCysPhe***TyrGluCysMetAlaAsnArgAspThrGluGluGlnLeuIleGlu
 ATCTGGGATGCTTTTGATATGAGTGTATGGCCAACCGGATACCGAAGAAGACAGCTAATTG

400

AsnSerLysSer***ThrValPhePheProProSerLeuIleAsnTyrPhe***IlePro
 ThrAlaAsnProLysArgPheSerSerLeuLeuArgLeuLeuThrIleSerLysSerArg
 GlnGlnIleLeuAsnGlyPheLeuProSerPheAlaTyr***LeuPheLeuAsnProVal
 AACAGCAAATCCTAAACGGTTTTCTTCCCTCCTTCGCTTATTACTATTTCTAAATCCCG

PheGlyLysSerGluValGlyProGlnTyrProPheIlePheArgAspLeuHisLysSer
 LeuGluLysValLys***ValProSerIleHisSerSerSerGlyIleCysIleLysAla
 TrpLysLys***SerArgSerProValSerIleHisLeuGlnGlyPheAla***LysPro
 TTTGGAAAAAGTGAAGTAGGTCCCCAGTATCCATTCATCTTCAGGGATTGCATAAAAGC

500

LeuSerLeuPheArgCysLysGlnPheSerThrSerArgAsnPheHisSerValSerPhe
 CysLeuCysSerGlyValSerAsnSerLeuProLeuAlaIlePheIleGlnTyrHisSer
 ValSerValProVal***AlaIleLeuTyrLeuSerGlnPheSerPheSerIleIlePro
 CTGTCTCTGTTCCGGTGTAAGCAATTCTCTACCTCTCGCAATTTTCATTTCAGTATCATTC

600

HisPheCysIlePheAsnLeuLeuValGlnLeuTyrIleAsnArgValTyrSerIleAsp
 IleSerValPheSerIleTyr***PheAsnTyrIleSerIleGluCysThrLeuLeuIle
 PheLeuTyrPheGlnPheIleSerSerIleIleTyrGln***SerValLeuTyr***Tyr
 CATTTCTGTATTTTCAATTTATTAGTTCAATTATATATCAATAGAGTGTACTCTATTGAT

ThrAsnValValAsp*****AsnHisSer***GluArgLeuIleArgLeuValSerLys
 GlnMet*****ThrAspLysIleIleValLysSerValSer***AspLeuSerGlnLys
 LysCysSerArgLeuIleLysSer***LeuArgAlaSerHisLysThrCysLeuLysAsn

ACAAATGTAGTAGACTGATAAAATCATAGTTAAGAGCGTCTCATAAGACTTGTCTCAAAA

700

MetArg***TyrPheAlaGluAsnArgLeuTyrSerCysGlnPheAsp***ProGluSer
 ***GlyAspIleLeuArgLysIleGlyTyrIleArgValSerSerThrAsnGlnAsnPro
 GluValIlePheCysGlyLysSerValIlePheValSerValArgLeuThrArgIleLeu
 ATGAGGTGATATTTTGCAGGAAAATCGGTTATATTCGTGTCAGTTCGACTAACCAGAATCC

PheLysThrIleSerAlaValGluArgAspArgAsnGlyTyrTyrIleLysArgLysPhe
 SerArgGlnPheGlnGlnLeuAsnGluIleGlyMetAspIleIle***ArgGluSerPhe
 GlnAspAsnPheSerSer***ThrArgSerGluTrpIleLeuTyrLysGluLysValSer
 TTCAAGACAATTTTCAGCAGTTGAACGAGATCGGAATGGATATTATATAAAGAGAAAGTTT

800

GlnGluGlnGlnArgIleAlaSerAsnPheLysLysCys***ThrIleTyrArgLysMet
 ArgSerAsnLysGlySerArgAlaThrSerLysSerValArgArgPheThrGlyArg***
 GlyAlaThrLysAspArgGluGlnLeuGlnLysValLeuAspAspLeuGlnGluAspAsp
 CAGGAGCAACAAAGGATCGCGAGCAACTTCAAAAAGTGTTAGACGATTACAGGAAGATG

900

ThrSerPheMetLeuGlnThr***LeuGluSerLeuValValHisLysIleTyrLeuAsn
 HisHisLeuCysTyrArgLeuAsnSerAsnHisSer***TyrThrArgSerIle***Ile
 IleIleTyrValThrAspLeuThrArgIleThrArgSerThrGlnAspLeuPheGluLeu
 ACATCATTATGTTACAGACTTAACCTCGAATCACTCGTAGTACACAAGATCTATTTGAAT

SerIleThrTyrGluIleLysArgGlnValAsnHis***LysIleHisGlyLeu
 AsnArg***HisThrArg***LysGlyLysPheLysIleThrLysArgTyrMetAla***
 IleAspAsnIleArgAspLysLysAlaSerLeuLysSerLeuLysAspThrTrpLeuAsp

TAATCGATAACATACGAGATAAAAAGGCAAGTTTAAATCACTAAAAGATACATGGCTTG

1000

IleTyrGlnLysIleIleHisThrAlaAsnSer***LeuLeu***TrpLeuValLeuThr
 PheIleArgArg***SerIleGlnProIleLeuAsnTyrCysAsnGlyTrpCys***Pro

LeuSerGluAspAsnProTyrSerGlnPheLeuIleThrValMetAlaGlyValAsnGln
 ATTTATCAGAAGATAATCCATACAGCCAATTCTTAATTACTGTAATGGCTGGTGTAAACC

Asn***SerGluIleLeuPheGly***AspAsnValLysGlyLeuAsnTrpLeuArgLys
 IleArgAlaArgSerTyrSerAspGluThrThr***ArgAsp***IleGly***GluArg
 LeuGluArgAspLeuIleArgMetArgGlnArgGluGlyIleGluLeuAlaLysLysGlu
 AATTAGAGCGAGATCTTATTCGGATGAGACAACGTGAAGGGATTGAATTGGCTAAGAAAG

1100

LysGluSerLeuLysValAsp***ArgSerIleIleLysIleThrGlnGlu***IleMet
 ArgLysVal***ArgSerIleLysGluValSer***LysSerArgArgAsnGluLeuCys
 GlyLysPheLysGlyArgLeuLysLysTyrHisLysAsnHisAlaGlyMetAsnTyrAla
 AAGGAAAGTTTAAAGGTCGATTAAAGAAGTATCATAAAAATCACGCAGGAATGAATTATG

1200

ArgArgLysLeuTyrLysGluGlyAsnMetThrValAsnGlnIleCysGluIleThrAsn
 GlyGluSerTyrIleLysLysGluIle***Leu***IleLysPheValLysLeuLeuMet
 AlaLysAlaIle***ArgArgLysTyrAspCysLysSerAsnLeu***AsnTyr***Cys
 CGGXXAAAGCTATATAAAGAAGGAAATATGACTGTAAATCAAATTTGTGAAATTACTAAT

ValSerArgAlaSerLeuTyrArgLysLeuSerGluValAsnAsn***ProPheCysIle
 TyrLeuGlyLeuHisTyrThrGlyAsnTyrGlnLys***IleIleSerHisSerValPhe
 Ile***GlyPheIleIleGlnGluIleIleArgSerGlu***LeuAlaIleLeuTyrSer
 GTATCTAGGGCTTCATTATACAGGAAATTATCAGAAGTGAATAATTAGCCATTCTGTATT

1300

ProLeuMetGlyAsnIlePheLysGluGluLysGluThrIleLysTyr***GlnProPro
 Arg***TrpAlaIlePheLeuLysLysLysArgLysLeu***AsnIleAsnSerLeuLeu
 AlaAsnGlyGlnTyrPhe***ArgArgLysGlyAsnTyrLysIleLeuThrAlaSer***
 CCGCTAATGGGCAATATTTTTAAAGAAGAAAAGGAACTATAAATATTAACAGCCTCCT

SerAspAlaGluLysProPheAspLysLysArgIleIleIleLeuArgAsnSer***Ser
 AlaMetProLysSerProLeuIleLysLysGluSerSerSer***GluIleLeuSerHis
 ArgCysArgLysAlaLeu*****LysLysAsnHisHisLeuLysLysPheLeuValIle
 AGCGATGCCGAAAAGCCCTTTGATAAAAAAGAATCATCATCTTAAGAAATTCTTAGTCA

1400

PheIleMet***MetLeuIleAsnSerAlaLeu***SerAspLysLeuLeuArgAlaAsn
 LeuLeuCysLysCysLeu***IleArgProTyrAsnLeuIleAsnTyr***GlyGlnThr
 TyrTyrValAsnAlaTyrLysPheGlyProIleIle*****IleIleLysGlyLysLeu
 TTTATTATGTAAATGCTTATAAATTCGGCCCTATAATCTGATAAATTATTAAGGGCAAAC

1500

LeuCysGluArgValIleThrMetSerAspLysIleLeuIleValAspAspGluHisGlu
 TyrValLysGly*****Leu***AlaIleLysTyrLeuLeuTrpMetMetAsnMetLys
 Met***LysGlyAspAsnTyrGluArg***AsnThrTyrCysGly*****Thr***Asn
 TTATGTGAAAGGGTGATAACTATGAGCGATAAAATACTTATTGTGGATGATGAACATGAA

IleAlaAspLeuValGluLeuTyrLeuLysAsnGluAsnTyrThrValPheLysTyrTyr
 LeuProIleTrpLeuAsnTyrThr***LysThrArgIleIleArgPheSerAsnThrIle
 CysArgPheGly***IleIleLeuLysLysArgGluLeuTyrGlyPheGlnIleLeuTyr
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1600

ThrAlaLysGluAlaLeuGluCysIleAspLysSerGluIleAspLeuAlaIleLeuAsp
 ProProLysLysHisTrpAsnVal***ThrSerLeuArgLeuThrLeuProTyrTrpThr
 ArgGlnArgSerIleGlyMetTyrArgGlnVal***Asp***ProCysHisIleGlyHis
 ACCGCCAAAGAAGCATTGGAATGTATAGACAAGTCTGAGATTGACCTTGCCATATTGGAC

IleMetLeuProGlyThrSerGlyLeuThrIleCysGlnLysIleArgAspLysHisThr
 SerCysPheProAlaGlnAlaAlaLeuLeuSerValLysLys***GlyThrSerThrPro
 HisAlaSerArgHisLysArgProTyrTyrLeuSerLysAsnLysGlyGlnAlaHisLeu
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1700

TyrProIleIleMetLeuThrGlyLysAspThrGluValAspLysIleThrGlyLeuThr
 IleArgLeuSerCys***ProGlyLysIleGlnArg***IleLysLeuGlnGly***Gln
 SerAspTyrHisAlaAspArgGluArgTyrArgGlyArg***AsnTyrArgValAsnAsn
 TATCCGATTATCATGCTGACCGGGAAAGATACAGAGGTAGATAAAATTACAGGGTTAACA

1800

IleGlyAlaAspAspTyrIleThrLysProPheArgProLeuGluLeuIleAlaArgVal
 SerAlaArgMetIleIle***ArgSerProPheAlaHisTrpSer***LeuLeuGly***
 ArgArgGly***LeuTyrAsnGluAlaLeuSerProThrGlyValAsnCysSerGlyLys
 ATCGGCGCGGATGATTATATAACGAAGCCCTTTCGCCCACTGGAGTTAATTGCTCGGGTA

LysAlaGlnLeuArgArgTyrLysLysPheSerGlyValLysGluGlnAsnGluAsnVal
 ArgProSerCysAlaAspThrLysAsnSerValGlu***ArgSerArgThrLysMetLeu
 GlyProValAlaProIleGlnLysIleGlnTrpSerLysGlyAlaGluArgLysCysTyr
 AAGGCCAGTTGCGCCGATACAAAAATTTCAGTGGAGTAAAGGAGCAGAACGAAAATGTT

1900

IleValHisSerGlyLeuValIleAsnValAsnThrHisGluCysTyrLeuAsnGluLys
 SerSerThrProAlaLeuSerLeuMetLeuThrProMetSerValIle***ThrArgSer
 ArgProLeuArgProCysHis***Cys***HisPro***ValLeuSerGluArgGluAla
 ATCGTCCACTCCGGCCTTGTCATTAATGTTAACACCCATGAGTGTTATCTGAACGAGAAG

GlnLeuSerLeuThrProThrGluPheSerIleLeuArgIleLeuCysGluAsnLysGly
 SerTyrProLeuLeuProProSerPheGlnTyrCysGluSerSerValLysThrArgGly
 ValIleProTyrSerHisArgValPheAsnThrAlaAsnProLeu***LysGlnGlyGlu
 CAGTTATCCCTTACTCCCACCGAGTTTCAATACTGCGAATCCTCTGTGAAAACAAGGGG

2000

AsnValValSerSerGluLeuLeuPheHisGluIleTrpGlyAspGluTyrPheSerLys
 MetTrpLeuAlaProSerCysTyrPheMetArgTyrGlyAlaThrAsnIleSerAlaArg
 CysGly***LeuArgAlaAlaIleSer***AspMetGlyArgArgIlePheGlnGlnGlu
 AATGTGGTTAGCTCCGAGCTGCTATTTTCATGAGATATGGGGCCACGAATATTTTCAGCAAG

2100

17/35

SerAsnAsnThrIleThrValHisIleArgHisLeuArgGluLysMetAsnAspThrIle
AlaThrThrProSerProCysIleSerGlyIleCysAlaLysLys***ThrThrProLeu
GlnGlnHisHisHisArgAlaTyrProAlaPheAlaArgLysAsnGluArgHisHis**
AGCAACAACACCATCACCGTGCATATCCGGCATTGCGCGAAAAAATGAACGACACCATT

AspAsnProLysTyrIleLysThrValTrpGlyValGlyTyrLysIleGluLys***Lys
IleIleArgAsnIle***LysArgTyrGlyGlyLeuValIleLysLeuLysAsnLysLys
SerGluIleTyrLysAsnGlyMetGlyGlyTrpLeuAsn***LysIleLysLys
GATAATCCGAAATATATAAAAACGGTATGGGGGGTTGGTTATAAAATTGAAAAATAAAAA

2200

LysArgLeuPheGlnThrArgThrLysThrLeuHisValTyrArgCysAsnCysCysGly
AsnAspTyrSerLysLeuGluArgLysLeuTyrMetTyrIleValAlaIleValValVal
ThrThrIleProAsn***AsnGluAsnPheThrCysIleSerLeuGlnLeuLeuTrp***
AAACGACTATTCCAAACTAGAACGAAACTTTACATGTATATCGTTGCAATTGTTGTGGT

SerAsnCysIleArgValValTyrSerPheAsnAspProArgGluThrTrpGlyLeuAsp
AlaIleValPheValLeuTyrIleArgSerMetIleArgGlyLysLeuGlyAspTrpIle
GlnLeuTyrSerCysCysIlePheValGln***SerGluGlyAsnLeuGlyIleGlySer
AGCAATTGTATTCGTGTTGTATATTCGTTCAATGATCCGAGGGGAACTTGGGGATTGGAT

2300

LeuLysTyrPheGlyLysGlnIle***LeuLysSerProGlyArgAspGluIleIleSer
LeuSerIleLeuGluAsnLysTyrAspLeuAsnHisLeuAspAlaMetLysLeuTyrGln
ValPheTrpLysThrAsnMetThrIleThrTrpThrArg***AsnTyrIleAsn
CTTAAGTATTTTGAAAAACAAATATGACTTAAATCACCTGGACGCGATGAAATTATATCA

2400

18/35

IlePheHisThrGluGlnTyrArgTyrLeuTyrLeuCysGlyAspCysHis***TyrSer
TyrSerIleArgAsnAsnIleAspIlePheIleTyrValAlaIleValIleSerIleLeu
IleProTyrGlyThrIle***IleSerLeuPheMetTrpArgLeuSerLeuValPheLeu
ATATTCCATACGGAACAATATAGATATCTTTATTTATGTGGCGATTGTCATTAGTATTCT

TyrSerMetSerArgHisAlaPheLysIleArgLysIleLeu***ArgAspLysTyrArg
IleLeuCysArgValMetLeuSerLysPheAlaLysTyrPheAspGluIleAsnThrGly
PheTyrValAlaSerCysPheGlnAsnSerGlnAsnThrLeuThrArg***IleProAla
TATTCTATGTCGCGTCATGCTTTCAAAATTCGCAAAATACTTTGACGAGATAAAATACCGG

2500

His***CysThrTyrSerGluArgArg***ThrAsn***AlaPheCysGlyAsnGlyCys
IleAspValLeuIleGlnAsnGluAspLysGlnIleGluLeuSerAlaGluMetAspVal
LeuMetTyrLeuPheArgThrLysIleAsnLysLeuSerPheLeuArgLysTrpMetLeu
CATTGATGTACTTATTCAGAACGAAGATAAAACAAATTGAGCTTTCTGCGGAAATGGATGT

TyrGlyThrLysAlaGlnHisIleLysThrAspSerGlyLysAlaArgAlaGlyCysLys
MetGluGlnLysLeuAsnThrLeuLysArgThrLeuGluLysArgGluGlnAspAlaLys
TrpAsnLysSerSerThrHis***AsnGlyLeuTrpLysSerGluSerArgMetGlnSer
TATGGAACAAAAGCTCAACACATTAAACGGACTCTGGAAAAGCGAGAGCAGGATGCAAA

2600

AlaGlyArgThrLysLysLys***ArgCysTyrValLeuGlyAlaArgTyr***AsnAla
LeuAlaGluGlnArgLysAsnAspValValMetTyrLeuAlaHisAspIleLysThrPro
TrpProAsnLysGluLysMetThrLeuLeuCysThrTrpArgThrIleLeuLysArgPro
GCTGGCCGAACAAAGAAAAAATGACGTTGTTATGTACTTGGCGCACGATATTAAACGCC

2700

ProTyrIleHisTyrArgLeuPheGluProAla***ArgGlySerArgHisAlaGlyArg
 LeuThrSerIleIleGlyTyrLeuSerLeuLeuAspGluAlaProAspMetProValAsp
 LeuHisProLeuSerValIle***AlaCysLeuThrArgLeuGlnThrCysArg***Ile
 CCTTACATCCATTATCGGTTATTTGAGCCTGCTTGACGAGGCTCCAGACATGCCGGTAGA

SerLysGlyLysValCysAlaTyrHisValGlyGlnSerValSerThrArgThrAlaAsn
 GlnLysAlaLysTyrValHisIleThrLeuAspLysAlaTyrArgLeuGluGlnLeuIle
 LysArgGlnSerMetCysIleSerArgTrpThrLysArgIleAspSerAsnSer***Ser
 TCAAAAGGCAAAGTATGTGCATATCACGTTGGACAAAGCGTATCGACTCGAACAGCTAAT

2800

ArgArgValPhe***AspTyrThrVal***ProThrAsnAspAsnAlaAsnLysAsnAla
 AspGluPhePheGluIleThrArgTyrAsnLeuGlnThrIleThrLeuThrLysThrHis
 ThrSerPheLeuArgLeuHisGlyIleThrTyrLysArg***Arg***GlnLysArgThr
 CGACGAGTTTTTTGAGATTACACGGTATAACCTACAAACGATAACGCTAACAAAAACGCA

HisArgProIleLeuTyrAlaGlyAlaAspAspArg***IleLeuSerSerAlaPheArg
 IleAspLeuTyrTyrMetLeuValGlnMetThrAspGluPheTyrProGlnLeuSerAla
 ThrTyrThrIleCysTrpCysArgProMetAsnPheIleLeuSerPheProHis
 CATAGACCTATACTATATGCTGGTGCAGATGACCGATGAATTTTATCCTCAGCTTTCCGC

2900

ThrTrpLysThrGlyGlyTyrSerArgProArgGlySerAspArgValArgArgPro***
 HisGlyLysGlnAlaValIleHisAlaProGluAspLeuThrValSerGlyAspProAsp
 MetGluAsnArgArgLeuPheThrProProArgIle***ProCysProAlaThrLeuIle
 ACATGGAAAACAGGCGGTTATTCACGCCCCGAGGATCTGACCGTGTCCGGCGACCCTGA

3000

ThrArgGluSerLeuGlnHisPheGluLysArgArgCysIleGln***Gly***
 LysLeuAlaArgValPheAsnAsnIleLeuLysAsnAlaAlaAlaTyrSerGluAspAsn
 AsnSerArgGluSerLeuThrThrPhe***LysThrProLeuHisThrValArgIleThr
 TAAACTCGCGAGAGTCTTTAACAACATTTTGAAAAACGCCGCTGCATACAGTGAGGATAA

GlnHisHis***HisTyrArgGlyProLeuArgGlyCysGlyValAsnArgIleGlnGlu
 SerIleIleAspIleThrAlaGlyLeuSerGlyAspValValSerIleGluPheLysAsn
 AlaSerLeuThrLeuProArgAlaSerProGlyMetTrpCysGlnSerAsnSerArgThr
 CAGCATCATTGACATTACCGCGGGCCTCTCCGGGGATGTGGTGTCAATCGAATTCAAGAA

3100

HisTrpLysHisProLysArg***AlaSerCysHisIle***LysValLeu***AlaGly
 ThrGlySerIleProLysAspLysLeuAlaAlaIlePheGluLysPheTyrArgLeuAsp
 LeuGluAlaSerGlnLysIleSer***LeuProTyrLeuLysSerSerIleGlyTrpThr
 CACTGGAAGCATCCCAAAGATAAGCTAGCTGCCATATTGAAAGTTCTATAGGCTGGA

GlnPheSerPhePheArgTyrGlyTrpArgGlyThrTrpIleGlyAspCysLysArgAsn
 AsnSerArgSerSerAspThrGlyGlyAlaGlyLeuGlyLeuAlaIleAlaLysGluIle
 IleLeuValLeuProIleArgValAlaArgAspLeuAspTrpArgLeuGlnLysLysLeu
 CAATTCTCGTTCTTCCGATACGGGTGGCGCGGGACTTGGATTGCGGATTGCAAAGAAAT

3200

TyrCysSerAlaTrpArgAlaAspLeuArgGlyLysLeu*****LeuTyrAspVal***
 IleValGlnHisGlyGlyGlnIleTyrAlaGluSerTyrAspAsnTyrThrThrPheArg
 LeuPheSerMetGluGlyArgPheThrArgLysAlaMetIleThrIleArgArgLeuGly
 TATTGTTTCAGCATGGAGGGCAGATTTACGCGGAAAGCTATGATAACTATACGACGTTTAG

3300

GlyArgAlaSerSerAspAlaArgLeuGly*****LysGluValLeuArgAspValTyr
 ValGluLeuProAlaMetProAspLeuValAspLysArgArgSer***GluMetTyrIle
 SerPheGlnArgCysGlnThrTrpLeuIleLysGlyGlyProLysArgCysIle
 GGTAGAGCTTCCAGCGATGCCAGACTTGGTTGATAAAAGGAGGTCCTAAGAGATGTATAT

AsnPheLeuGlyLysSerGlnGlyTyrLeuTyrPhePheLeuGlyAsn***GlnPheAsn
 IlePhe***GluAsnLeuLysValIlePheThrPheSer***GluIleAsnAsnLeuIle
 PhePheArgLysIleSerArgLeuSerLeuLeuPheLeuArgLysLeuThrIle***Tyr
 AATTTTTTAGGAAAATCTCAAGGTTATCTTTACTTTTTCTTAGGAAATTAACAATTTAAT

3400

IleLysLysArgLeuValLeuThrArg***Thr***TyrArgLysAsnGluProPheSer
 LeuArgAsnGlySerPheLeuHisGlyArgLeuAsnThrValArgThrSerArgPheArg
 GluThrAlaArgSerTyrThrValAspLeuIleProGluArgAlaValPheVal
 ATTAAGAAACGGCTCGTTCTTACACGGTAGACTTAATACCGTAAGAACGAGCCGTTTTTCG

PhePheArgGluArgPheAspLysIleThrIleGlyIleProValLeuPheGlyAlaPhe
 SerSerGluLysAspLeuThrArgLeuProLeuAlaSerProPheTyrLeuValProPhe
 LeuGlnArgLysIle***GlnAspTyrHisTrpHisProArgPheIleTrpCysLeuSer
 TTCTTCAGAGAAAGATTTGACAAGATTACCATTGGCATCCCCGTTTTATTTGGTGCCTTT

3500

HisArgLysGlyTrpSer***Leu***IleThrSerAlaLeuLeuPheMetAspValSer
 ThrGluArgValGlyLeuAsnTyrGlu***HisArgHisTyrCysLeuTrpMet***Ala
 GlnLysGlyLeuValLeuIleMetAsnAsnIleGlyIleThrValTyrGlyCysGluGln
 CACAGAAAGGGTTGGTCTTAATTATGAATAACATCGGCATTACTGTTTATGGATGTGAGC

3600

ArgMetArgGlnMetHisSerMetLeuPheArgLeuAlaLeuAlaLeuTrpGlnArg***
 Gly***GlyArgCysIleProCysSerPheAlaSerLeuTrpArgTyrGlyAsnAspAsn
 AspGluAlaAspAlaPheHisAlaLeuSerProArgPheGlyValMetAlaThrIleIle
 AGGATGAGGCAGATGCATTCCATGCTCTTTCGCCTCGCTTTGGCGTTATGGCAACGATAA

LeuThrProThrCysArgAsnProThrProAsnProArgLeuSerIleAsnValSerVal
 ***ArgGlnArgValGlyIleGlnArgGlnIleArgAlaPheGlnSerMetTyrGlnCys
 AsnAlaAsnValSerGluSerAsnAlaLysSerAlaProPheAsnGlnCysIleSerVal
 TTAACGCCAACGTGTCGGAATCCAACGCCAAATCCGCGCCTTCAATCAATGTATCAGTG

3700

TrpAspIleAsnGlnArgPheProProLeuPhePheLeuArg***ArgGluProVal***
 GlyThr***IleArgAspPheArgLeuTyrSerSerCysAlaGluGluSerArgCysGlu
 GlyHisLysSerGluIleSerAlaSerIleLeuLeuAlaLeuLysArgAlaGlyValLys
 TGGGACATAAATCAGAGATTTCCGCCTCTATTCTTCTTGCGCTGAAGAGAGCCGGTGTGA

AsnIlePheLeuProGluAlaSerAlaAlaIleIle***IleGlnLeuLeuLeuArgGlu
 IleTyrPheTyrProLysHisArgLeuGlnSerTyrArgTyrAsnCysCys***GluAsn
 TyrIleSerThrArgSerIleGlyCysAsnHisIleAspThrThrAlaAlaLysArgMet
 AATATATTTCTACCCGAAGCATCGGCTGCAATCATATAGATACAACTGCTGCTAAGAGAA

3800

TrpAlaSerLeuSerThrMetTrpArgThrArgArgIleAlaLeuProIleIleLeu***
 GlyHisHisCysArgGlnCysGlyValLeuAlaGly***ArgCysArgLeuTyrTyrAsp
 GlyIleThrValAspAsnValAlaTyrSerProAspSerValAlaAspTyrThrMetMet
 TGGGCATCACTGTCGACAATGTGGCGTACTCGCCGGATAGCGTTGCCGATTATACTATGA

3900

Cys***PheLeuTrpGlnTyrAlaThr***AsnArgLeuCysAlaLeuTrpLysAsnMet
 AlaAsnSerTyrGlySerThrGlnArgLysIleAspCysAlaLeuCysGlyLysThr***
 LeuIleLeuMetAlaValArgAsnValLysSerIleValArgSerValGluLysHisAsp
 TGCTAATTCTTATGGCAGTACGCAACGTAAAATCGATTGTGCGCTCTGTGGAAAAACATG

IleSerGlyTrpThrAlaThrValAlaArgTyrSerAlaThr***GlnLeuValTrpTrp
 PheGlnValGlyGlnArgProTrpGlnGlyThrGlnArgHisAspSerTrpCysGlyGly
 PheArgLeuAspSerAspArgGlyLysValLeuSerAspMetThrValGlyValValGly
 ATTCAGGTTGGACAGCGACCGTGGCAAGGTACTCAGCGACATGACAGTTGGTGTGGTGG

4000

GluArgAlaArg***AlaLysArgLeuLeuSerGlyCysGluAspLeuAspValLysCys
 AsnGlyProAspArgGlnSerGlyTyr***AlaAlaAlaArgIleTrpMet***SerVal
 ThrGlyGlnIleGlyLysAlaValIleGluArgLeuArgGlyPheGlyCysLysValLeu
 GAACGGGCCAGATAGGCAAAGCGGTTATTGAGCGGCTGCGAGGATTGGATGTAAAGTGT

TrpLeuIleValAlaAlaGluVal***Arg***ThrMetTyrArgLeuMetSerCysCys
 GlyLeu***SerGlnProLysTyrArgGlyLysLeuCysThrVal*****ValAlaAla
 AlaTyrSerArgSerArgSerIleGluValAsnTyrValProPheAspGluLeuLeuGln
 TGGCTTATAGTCGCAGCCGAAGTATAGAGGTAAACTATGTACCGTTTGATGAGTTGCTGC

4100

LysIleAlaIleSerLeuArgPheMetCysArgSerIleArgIleArgThrIleLeuSer
 Lys***ArgTyrArgTyrAlaSerCysAlaAlaGlnTyrGlyTyrAlaLeuTyrTyrGln
 AsnSerAspIleValThrLeuHisValProLeuAsnThrAspThrHisTyrIleIleSer
 AAAATAGCGATATCGTTACGCTTCATGTGCCGCTCAATACGGATACGCACTATATTATCA

4200

AlaThrAsnLysTyrArgGlu***SerLysGluHisPheLeuSerIleLeuGlyAlaVal
 ProArgThrAsnThrGluAsnGluAlaArgSerIleSerTyrGlnTyrTrpAlaArgSer
 HisGluGlnIleGlnArgMetLysGlnGlyAlaPheLeuIleAsnThrGlyArgGlyPro
 GCCACGAACAAATACAGAGAATGAAGCAAGGAGCATTCTTATCAATACTGGGCGCGGTC

HisLeu***IleProMetSerTrpLeuLysHis***LysThrGlyAsnTrpAlaValPro
 ThrCysArgTyrLeu***ValGly***SerIleArgLysArgGluThrGlyArgCysArg
 LeuValAspThrTyrGluLeuValLysAlaLeuGluAsnGlyLysLeuGlyGlyAlaAla
 CACTTGTAGATACCTATGAGTTGGTTAAAGCATTAGAAAACCGAAACTGGGCGGTGCCG

4300

HisTrpMetTyrTrpLysGluArgLysSerPheSerThrLeuIleAlaProLysAsnGln
 IleGlyCysIleGlyArgArgGlyArgValPheLeuLeu***LeuHisProLysThrAsn
 LeuAspValLeuGluGlyGluGluGluPhePheTyrSerAspCysThrGlnLysProIle
 CATTGGATGTATTGGAAGGAGAGGAAGAGTTTTTCTACTCTGATTGCACCCAAAAACCAA

LeuIleIleAsnPheTyrLeuAsnPheLysGluCysLeuThr*****SerHisArgIle
 *****SerIlePheThr***ThrSerLysAsnAla***ArgAspAsnHisThrAlaTyr
 AspAsnGlnPheLeuLeuLysLeuGlnArgMetProAsnValIleIleThrProHisThr
 TTGATAATCAATTTTTACTTAACTTCAAAGAATGCCTAACGTGATAATCACACCGCATA

4400

ArgProIleIleProSerLysArgCysValIleProLeuLysLysProLeuLysThrVal
 GlyLeuLeuTyrArgAlaSerValAla***TyrArg***LysAsnHis***LysLeuPhe
 AlaTyrTyrThrGluGlnAlaLeuArgAspThrValGluLysThrIleLysAsnCysLeu
 CGGCCTATTATACCGAGCAAGCGTTGCGTGATACCGTTGAAA-AACCATTAAAACTGTT

4500

TrpIleLeuLysGlyAspArgSerMetAsnArgIleLysValAlaIleLeuPheGlyGly
 GlyPhe***LysGluThrGlyAla***IleGlu***LysLeuGlnTyrCysLeuGlyVal
 AspPheGluArgArgGlnGluHisGlu***AsnLysSerCysAsnThrValTrpGlyLeu
 TGGATTTTGAAGGAGACAGGAGCATGAATAGAATAAAAGTTGCAATACTGTTTGGGGGT

CysSerGluGluHisAspValSerValLysSerAlaIleGluIleAlaAlaAsnIleAsn
 AlaGlnArgSerMetThrTyrArg***AsnLeuGln***Arg***ProLeuThrLeuIle
 LeuArgGlyAla***ArgIleGlyLysIleCysAsnArgAspSerArg***His*****
 TGCTCAGAGGAGCATGACGTATCGGTAAAATCTGCAATAGAGATAGCCGCTAACATTAAT

4600

LysGluLysTyrGluProLeuTyrIleGlyIleThrLysSerGlyValTrpLysMetCys
 LysLysAsnThrSerArgTyrThrLeuGluLeuArgAsnLeuValTyrGlyLysCysAla
 ArgLysIleArgAlaValIleHisTrpAsnTyrGluIleTrpCysMetGluAsnValArg
 AAAGAAAATACGAGCCGTTATACATTGGAATTACGAAATCTGGTGTATGGAAAATGTGC

GluLysProCysAlaGluTrpGluAsnAspAsnCysTyrSerAlaValLeuSerProAsp
 LysAsnLeuAlaArgAsnGlyLysThrThrIleAlaIleGlnLeuTyrSerArgArgIle
 LysThrLeuArgGlyMetGlyLysArgGlnLeuLeuPheSerCysThrLeuAlaGly**
 GAAAAACCTTGCGCGGAATGGGAAAACGACAATTGCTATTCAGCTGTACTCTCGCCGGAT

4700

LysLysMetHisGlyLeuLeuValLysLysAsnHisGluTyrGluIleAsnHisValAsp
 LysLysCysThrAspTyrLeuLeuLysArgThrMetAsnMetLysSerThrMetLeuMet
 LysAsnAlaArgIleThrCys***LysGluPro***Ile***AsnGlnProCys***Cys
 AAAAAATGCACGGATTACTTGTTAAAAGAACCATGAATATGAAATCAACCATGTTGAT

4800

ValAlaPheSerAlaLeuHisGlyLysSerGlyGluAspGlySerIleGlnGlyLeuPhe
 ***HisPheGlnLeuCysMetAlaSerGlnValLysMetAspProTyrLysValCysLeu
 SerIlePheSerPheAlaTrpGlnValArg***ArgTrpIleHisThrArgSerVal***
 GTAGCATTTTCAGCTTTGCATGGCAAGTCAGGTGAAGATGGATCCATACAAGGTCTGTTT

 GluLeuSerGlyIleProPheValGlyCysAspIleGlnSerSerAlaIleCysMetAsp
 AsnCysProValSerLeuLeu***AlaAlaIlePheLysAlaGlnGlnPheValTrpThr
 IleValArgTyrProPheCysArgLeuArgTyrSerLysLeuSerAsnLeuTyrGlyGln
 GAATTGTCCGGTATCCCTTTTGTAGGCTGCGATATTCAAAGCTCAGCAATTTGTATGGAC
 4900
 LysSerLeuThrTyrIleValAlaLysAsnAlaGlyIleAlaThrProAlaPheTrpVal
 AsnArg***HisThrSerLeuArgLysMetLeuGly***LeuLeuProProPheGlyLeu
 IleValAspIleHisArgCysGluLysCysTrpAspSerTyrSerArgLeuLeuGlyTyr
 AAATCGTTGACATACATCGTTGCGAAAAATGCTGGGATAGCTACTCCCGCCTTTTGGGTT

 IleAsnLysAspAspArgProValAlaAlaThrPheThrTyrProValPheValLysPro
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 *****Arg*****AlaGlyGlySerTyrValTyrLeuSerCysPheCys***AlaGly
 ATTAATAAAGATGATAGGCCGGTGGCAGCTACGTTTACCTATCCTGTTTTTGTAAAGCCG
 5000
 AlaArgSerGlySerSerPheGlyValLysLysValAsnSerAlaAspGluLeuAspTyr
 ArgValGlnAlaHisProSerVal***LysLysSerIleAlaArgThrAsnTrpThrThr
 AlaPheArgLeuIleLeuArgCysGluLysSerGln***ArgGlyArgIleGlyLeuArg
 GCGCGTTCAGGCTCATCCTTCGGTGTGAAAAAAGTCAATAGCGCGGACGAATTGGACTAC
 5100

AlaIleGluSerAlaArgGlnTyrAspSerLysIleLeuIleGluGlnAlaValSerGly
 GlnLeuAsnArgGlnAspAsnMetThrAlaLysSer***LeuSerArgLeuPheArgAla
 Asn***IleGlyLysThrIle***GlnGlnAsnLeuAsn***AlaGlyCysPheGlyLeu
 GCAATTGAATCGGCAAGACAATATGACAGCAAATCTTAATTGAGCAGGCTGTTTCGGGC

CysGluValGlyCysAlaValLeuGlyAsnSerAlaAlaLeuValValGlyGluValAsp
 ValArgSerValValArgTyrTrpGluThrValProArg***LeuLeuAlaArgTrpThr
 ***GlyArgLeuCysGlyIleGlyLysGlnCysArgValSerCysTrpArgGlyGlyPro
 TGTGAGGTCGGTGTGCGGTATTGGGAAACAGTGCCGCGTTAGTTGTTGGCGAGGTGGAC

5200

GlnIleArgLeuGlnTyrGlyIlePheArgIleHisGlnGluValGluProGluLysGly
 LysSerGlyCysSerThrGluSerPheValPheIleArgLysSerSerArgLysLysAla
 AsnGlnAlaAlaValArgAsnLeuSerTyrSerSerGlySerArgAlaGlyLysArgLeu
 CAAATCAGGCTGCAGTACGGAATCTTTCGTATTTCATCAGGAAGTCGAGCCGGAAAAAGGC

SerGluAsnAlaValIleThrValProAlaAspLeuSerAlaGluGluArgGlyArgIle
 LeuLysThrGlnLeu***ProPheProGlnThrPheGlnGlnArgSerGluAspGlyTyr
 ***LysArgSerTyrAsnArgSerArgArgProPheSerArgGlyAlaArgThrAspThr
 TCTGAAAACGCAGTTATAACCGTTCCCGCAGACCTTTCAGCAGAGGAGCGAGGACGGATA

5300

GlnGluThrAlaLysLysIleTyrLysAlaLeuGlyCysArgGlyLeuAlaArgValAsp
 ArgLysArgGlnLysLysTyrIleLysArgSerAlaValGluVal***ProValTrpIle
 GlyAsnGlyLysLysAsnIle***SerAlaArgLeu***ArgSerSerProCysGlyTyr
 CAGGAAACGGCAAAAAAATATATAAAGCGCTCGGCTGTAGAGGTCTAGCCCGTGTGGAT

5400

MetPheLeuGlnAspAsnGlyArgIleValLeuAsnGluValAsnThrLeuProGlyPhe
 CysPheTyrLysIleThrAlaAlaLeuTyr***ThrLysSerIleLeuCysProValSer
 ValPheThrArg***ArgProHisCysThrGluArgSerGlnTyrSerAlaArgPheHis
 ATGTTTTTACAAGATAACGGCCGCATTGTACTGAACGAAGTCAATACTCTGCCCCGGTTTC

ThrSerTyrSerArgTyrProArgMetMetAlaAlaAlaGlyIleAlaLeuProGluLeu
 ArgHisThrValValIleProVal***TrpProLeuGlnValLeuHisPheProAsn***
 ValIleGlnSerLeuSerProTyrAspGlyArgCysArgTyrCysThrSerArgThrAsp
 ACGTCATACAGTCGTTATCCCCGTATGATGGCCGCTGCAGGTATTGCACTTCCCGAAGT

5500

IleAspArgLeuIleValLeuAlaLeuLysGly*****AlaTrpLys***AspLeuLeu
 LeuThrAla***SerTyr***Arg***ArgGlyAspLysHisGlyAsnArgIleTyrPhe
 ***ProLeuAspArgIleSerValLysGlyValIleSerMetGluIleGlyPheThrPhe
 ATTGACCGCTTGATCGTATTAGCGTTAAAGGGGTGATAAGCATGGAAATAGGATTTACTT

Phe***MetLys***TyrThrValPheValGlyThrLeuAsnMetProLeuGlyIleIle
 PheArg***AsnSerThrArgCysSerLeuGlyArg***IleCysHisLeuGly***Phe
 LeuAspGluIleValHisGlyValArgTrpAspAlaLysTyrAlaThrTrpAspAsnPhe
 TTTTAGATGAAATAGTACACGGTGTTTCGTTGGGACGCTAAATATGCCACTTGGGATAATT

5600

SerProGluAsnArgLeuThrValMetLys***IleAlaLeu***GlyHisThrSerTrp
 HisArgLysThrGly***ArgLeu***SerLysSerHisCysArgAspIleArgValGly
 ThrGlyLysProValAspGlyTyrGluValAsnArgIleValGlyThrTyrGluLeuAla
 TCACCGGAAAACCGGTTGACGGTTATGAAGTAAATCGCATTGTAGGGACATACGAGTTGG

5700

LeuAsnArgPhe***ArgGlnLysAsnTrpLeuLeuProLysGlyThrAspCysPheTyr
 ***IleAlaPheGluGlyLysArgThrGlyCysTyrProArgValArgIleAlaSerMet
 GluSerLeuLeuLysAlaLysGluLeuAlaAlaThrGlnGlyTyrGlyLeuLeuLeuTrp
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GlyThrValThrValLeuSerValLeu***ThrValLeuCysAsnGlyLeuHisSerArg
 GlyArgLeuProSer***AlaCysCysLysLeuPheTyrAlaMetGlyCysThrAlaGly
 AspGlyTyrArgProLysArgAlaValAsnCysPheMetGlnTrpAlaAlaGlnProGlu

GGGACGGTTACCGTCCTAAGCGTGCTGTAAACTGTTTATGCAATGGGCTGCACAGCCGG

5800

LysIleThr***GlnArgLysValIleIleProIleLeuThrGluLeuArg***PheGln
 Lys***ProAspLysGlyLysLeuLeuSerGlnTyr***ProAsn***AspAspPheLys
 AsnAsnLeuThrLysGluSerTyrTyrProAsnIleAspArgThrGluMetIleSerLys
 AAAATAACCTGACAAAGGAAAGTTATTATCCCAATATTGACCGAAGTGGAGATGATTCTAA

LysAspThrTrpLeuGlnAsnGlnAlaIleAlaAlaAlaValProLeuIleLeuArgPhe
 ArgIleArgGlyPheLysIleLysPro***ProArgGlnCysHis***SerTyrAlaLeu
 GlyTyrValAlaSerLysSerSerHisSerArgGlySerAlaIleAspLeuThrLeuTyr
 AAGGATACGTGGCTTCAAAATCAAGCCATAGCCGCGCAGTGCCATTGATCTTACGCTTT

5900

IleAsp***ThrArgValSerLeuTyrGlnTrpGlyAlaAspLeuIleLeuTrpMetAsn
 SerIleArgHisGly***AlaCysThrAsnGlyGluProIle***PheTyrGly***Thr
 ArgLeuAspThrGlyGluLeuValProMetGlySerArgPheAspPheMetAspGluArg
 ATCGATTAGACACGGGTGAGCTTGTACCAATGGGGAGCCGATTTGATTTTATGGATGAAC

6000

AlaLeuIleMetArgGlnMetGluTyrHisAlaMetLysArgLysIleAlaAspValCys
 LeuSerSerCysGlyLysTrpAsnIleMetGln***SerAlaLysSerGlnThrPheAla
 SerHisHisAlaAlaAsnGlyIleSerCysAsnGluAlaGlnAsnArgArgArgLeuArg
 GCTCTCATCATGCGGCAAATGGAATATCATGCAATGAAGCGCAAATCGCAGACGTTTGC

AlaProSerTrpLysThrValGlyLeuLysHisIleAlaSerAsnGlyGlyThrMetTyr
 LeuHisHisGlyLysGlnTrpVal***SerIle***ProArgMetValAlaLeuCysIle
 SerIleMetGluAsnSerGlyPheGluAlaTyrSerLeuGluTrpTrpHisTyrValLeu
 GCTCCATCATGGAAAACAGTGGGTTTGAAGCATATAGCCTCGAATGGTGGCACTATGTAT

6100

***GluThrAsnHisThrProIleAlaIleLeuIleSerProLeuAsnLysLeuLeuThr
 LysArgArgThrIleProGln***LeuPhe***PheProArg***IleAsnPhe***Pro
 ArgAspGluProTyrProAsnSerTyrPheAspPheProValLys***ThrPheAsnArg
 TAAGAGACGAACCATACCCCAATAGCTATTTTGATTTCCTCCGTAATAAACTTTTAACC

ValAlaArgThrAsnTyrIleSer***LeuPheArgGlnGluThrArgArgMet***Leu
 LeuHisGlyGlnThrIle***AlaAsnSerPheGlyArgLysProAspValCysAsnTrp
 CysThrAspLysLeuTyrLysLeuThrLeuSerAlaGlyAsnProThrTyrValThrGly
 GTTGACACGGACAACTATATAAGCTAACTCTTTCGGCAGGAAACCCGACGTATGTAACG

6200

ValLeuArgGluPheIleTyrSerArg***Tyr***ArgCysLysAlaGluArgTyrCys
 PheLeuGlyAsnLeuTyrIleValAspSerIleGluAspValArgGlnSerAspIleAla
 Ser***GlyIleTyrIle*****IleValLeuLysMet***GlyArgAlaIleLeuArg
 GTTCTTAGGGAATTTATATATAGTAGATAGTATTGAAGATGTAAGGCAGAGCGATATTGC

6300

GlyHisTyrLeuArgAlaLeuArgGlnAspSerLeuIleIleArgLeuIleAla***Arg
 ValIleIleCysValArgCysGlyLysIleAla*****Asp***SerHisArgGly
 SerLeuSerAlaCysAlaAlaAlaArg***ProAspAsnLysThrAspArgIleGluGly
 GGTCATTATCTGCGTGCGCTGCGGCAAGATAGCCTGATAATAAGACTGATCGCATAGAGG

GlyGlyIleSerHisArgProLeuSerThrGlySerSerAlaSerLeuAsnSerAlaTrp
 ValValPheHisThrAlaHisCysGlnGlnAlaValGlnProArg***IleGlnHisGly
 TrpTyrPheThrProProIleValAsnArgGlnPheSerLeuValLysPheSerMetGly
 GGTGGTATTTACACCGCCCATTTGTCAACAGGCAGTTCAGCCTCGTTAAATTCAGCATGG

6400

ValSerLeuMetLysIleHisLeuHisTrp*****IleGln***GlyGluIle
 TyrHisLeu***LysPheIleTyrIleGlyAspAsnSerLysSerSerArgAlaLys***
 IleThrTyrGluAsnSerSerThrLeuValIleIleValAsnProValGlyArgAsnAsn
 GTATCACTTATGAAAATTCATCTACATTGGTGATAATAGTAAATCCAGTAGGGCGAAATA

IleAspCysAsnLeuArgGlyLysThrAlaGlnSerGlnThrArgLeuCysArgLeuArg
 LeuThrValIleTyrGlyAlaLysArgHisAsnLeuLysArgAspCysAlaVal***Gly
 LeuPheThrGlyGlnAsnGlyThrIleSerAsnGluIleValProPheLysGly
 ATTGACTGTAATTTACGGGGCAAACGGCACAATCTCAAACGAGATTGTGCCGTTTAAGG

6500

GlyArgPhe***LysTyrPheIleLeuProThrIle***LeuArgArgArgLeuLysMet
 GluAspSerArgAsnIleSerTyrPheGlnLeuTyrSer***GlyGlyAsp***Lys***
 LysIleLeuGluIlePheHisThrSerAsnTyrIleValLysGluGluThrGluAsnGlu
 GGAAGATTCTAGAAATATTTCACTACTCCAACCTATATAGTTAAGGAGGAGACTGAAAATG

6600

LysLysLeuPhePheLeuLeuLeuLeuLeuPheLeuIleTyrLeuGlyTyrAspTyrVal
 ArgSerCysPhePheTyrCysTyrCysTyrSer***TyrThr***ValMetThrThrLeu
 GluValValPhePheIleValIleValIleLeuAsnIleLeuArgLeu***LeuArg***
 AAGAAGTTGTTTTTTTTATTGTTATTGTTATTCTTAATATACTTAGGTTATGACTACGTT

AsnGluAlaLeuPheSerGlnGluLysValGluPheGlnAsnTyrAspGlnAsnProLys
 MetLysHisCysPheLeuArgLysLysSerAsnPheLysIleMetIleLysIleProLys
 SerThrValPheSerGlyLysSerArgIleSerLysLeuSerLysSerGlnArg

AATGAAGCACTGTTTTCTCAGGAAAAAGTCGAATTTCAAATTATGATCAAAATCCCAA

6700

GluHisLeuGluAsnSerGlyThrSerGluAsnThrGlnGluLysThrIleThrGluGlu
 AsnIle***LysIleValGlyLeuLeuLysIleProLysArgLysGlnLeuGlnLysAsn
 ThrPheArgLys***TrpAspPhe***LysTyrProArgGluAsnAsnTyrArgArgThr
 GAACATTTAGAAAATAGTGGGACTTCTGAAAATACCCAAGAGAAAACAATTACAGAAGAA

GlnValTyrGlnGlyAsnLeuLeuLeuIleAsnSerLysTyrProValArgGlnGluVal
 ArgPheIleLysGluIleCysTyr***SerIleValAsnIleLeuPheAlaLysLysCys
 GlyLeuSerArgLysSerAlaIleAsnGln*****IleSerCysSerProArgSerVal
 CAGGTTTATCAAGGAAATCTGCTATTAATCAATAGTAAATATCCTGTTCCCAAGAAGTG

6800

SerGlnIleSerIleTyrLeuAsnMetThrAsn*****MetAspThrGlyCys
 GluValArgTyrArgGluPheIle***Thr***ArgIleAsnLysTrpIleArgValAla
 LysSerAspIleValAsnLeuSerLysHisAspGluLeuIleAsnGlyTyrGlyLeuLeu
 TGAAGTCAGATATCGTGAATTTATCTAAACATGACGAATTAATAAATGGATACGGGTTGC

6900

LeuIleValIlePheIleCysGlnLysLys***HisLysAsnPheGlnArgTrpSerMet
 *****TyrLeuTyrValLysArgAsnSerThrLysIlePheArgAspGlyGln***
 AspSerAsnIleTyrMetSerLysGluIleAlaGlnLysPheSerGluMetValAsnAsp
 TTGATAGTAATATTTATATGTCAAAGAAATAGCACAAAATTTTCAGAGATGGTCAATG

MetLeu***ArgValAlaLeuValIleLeuLeuLeuIleValAlaIleGluThrLeuMet
 CysCysLysGlyTrpArg***SerPheTyrTyr*****TrpLeuSerArgLeu*****
 AlaValLysGlyGlyValSerHisPheIleIleAsnSerGlyTyrArgAspPheAspGlu
 ATGCTGTAAAGGGTGGCGTTAGTCATTTTATTATTAAATAGTGGCTATCGAGACTTTGATG

7000

SerLysValCysPheThrLysLysTrpGlyLeuSerMetProTyrGlnGlnValIleVal
 AlaLysCysAlaLeuProArgAsnGlyGly***ValCysLeuThrSerArgLeu*****
 GlnSerValLeuTyrGlnGluMetGlyAlaGluTyrAlaLeuProAlaGlyTyrSerGlu
 AGCAAAGTGTGCTTTACCAAGAAATGGGGGCTGAGTATGCCTTACCAGCAGGTTATAGTG

SerIleIleGlnValTyrHis***Met***AspGlnAla***ArgLysTrpAsnGluPro
 Ala***PheArgPheIleThrArgCysArgIleLysLeuAspGluAsnGlyThrSerPro
 HisAsnSerGlyLeuSerLeuAspValGlySerSerLeuThrLysMetGluArgAlaPro
 AGCATAATTCAGGTTTATCACTAGATGTAGGATCAAGCTTGACGAAAATGGAACGAGCCC

7100

LeuLysGluSerGly***LysLysMetLeuGlyAsnThrGlySerPheTyrValIleGln
 ***ArgLysValAspArgArgLysCysLeuGluIleArgValHisPheThrLeuSerArg
 GluGlyLysTrpIleGluGluAsnAlaTrpLysTyrGlyPheIleLeuArgTyrProGlu
 CTGAAGGAAAGTGGATAGAAGAAAATGCTTGGAAATACGGGTTTCATTTTACGTTATCCAG

7200

ArgThrLysGlnSer***GlnGluPhe
GlyGlnAsnArgValAsnArgAsnSer
AspLysThrGluLeuThrGlyIleGln
AGGACAAAACAGAGTTAACAGGAATTC

7227

<p> <i>Exon IV</i> GATATCGTTACGCTTCATGTGCCGCTCAATACGGATACGCACTATATTATCAGCCACGAACAAA </p>		64
<p> TACAGAGAATGAAGCAAGGAGCATTTCCTTATCAATACTGGGCGCGGTCCACTTGTAGATACCTATGAGTTGGTTAAAGCATTAGAAAACGG </p>		155
<p> GAAACTGGGCGGTGCCGCAATTGGATGTATTGGAAGGAGAGGAAGAGTTTTTCTACTCTGATTGCACCCAAAAACCAATTGATAATCAATTT </p>		266
<p> TTACTTAAACTTCAAAGAATGCCATAACGTGATAATCACACCGCATACGGCCTATTATACCGAGCAAGCGTTGCGTGATACCGTTGAAAAAA </p>		337
<p> <i>RBS</i> </p>		
<p> CCATTAAAACTGTTTGGATTGTTGAAAGGAGACAGGAGC </p>		415
<p> SER GLU GLU HIS ASP VAL SER VAL LYS SER ALA ILE GLU ILE ALA ALA ASP ILE ASP LYS GLU LYS TYR </p>		484
<p> TCA GAG GAG CAT GAC GTA TCG GTA AAA TCT GCA ATA GAG ATA GCC GCT AAC ATT AAT AAA GAA AAA TAC </p>		553
<p> GLU PRO LEU TYR ILE GLY ILE THR LYS SER GLY VAL TRP LYS MET CYS GLU LYS PRO CYS ALA GLU TRP </p>		622
<p> GAG CCG TTA TAC ATT GGA ATT ACG AAA TCT GGT GTA TGG AAA ATG TGC GAA AAA CCT TGC GCG GAA TGG </p>		691
<p> GLU ASP ASP ASP CYS TYR SER ALA VAL LEU SER PRO ASP LYS LYS MET HIS GLY LEU LEU VAL LYS LYS </p>		760
<p> GAA AAC GAC AAT TGC TAT TCA GCT GTA CTC TCG CCG GAT AAA AAA ATG CAC GGA TTA CTT GTT AAA AAG </p>		829
<p> ASP HIS GLU TYR GLU ILE ASP HIS VAL ASP VAL ALA PHE SER ALA LEU HIS GLY LYS SER GLY GLU ASP </p>		898
<p> AAC CAT GAA TAT GAA ATC AAC CAT GTT GAT GTA GCA TTT TCA GCT TTG CAT GGC AAG TCA GGT GAA GAT </p>		967
<p> GLY SER ILE GLN GLY LEU PHE GLU LEU SER GLY ILE PRO PHE VAL GLY CYS ASP ILE GLN SER SER ALA </p>		1036
<p> GGA TCC ATA CAA GGT CTG TTT GAA TTG TCC GGT ATC CCT TTT GTA GGC TGC GAT ATT CAA AGC TCA GCA </p>		1105
<p> ILE CYS MET ASP LYS SER LEU THR TYR ILE VAL ALA LYS ASP ALA GLY ILE ALA THR PRO ALA PHE TRP </p>		1174
<p> ATT TGT ATG GAC AAA TCG TTG ACA TAC ATC GTT GCG AAA AAT GCT GCG ATA GCT ACT CCC GCC TTT TGG </p>		1243
<p> VAL ILE ASP LYS ASP ASP ARG PRO VAL ALA ALA THR PHE THR TYR PRO VAL PHE VAL LYS PRO ALA ARG </p>		1312
<p> GTT ATT AAT AAA CAT GAT AGG CCG GTG GCA GCT ACG TTT ACC TAT CCT GTT TTT GTT AAG CCG GCG CGT </p>		1381
<p> SER GLY SER SER PHE GLY VAL LYS LYS VAL ASP SER ALA ASP GLU LEU ASP TYR ALA ILE GLU SER ALA </p>		1462
<p> TCA GGC TCA TCC TTC GGT GTG AAA AAA GTC AAT AGC GCG GAC GAA TTG GAC TAC GCA ATT GAA TCG GCA </p>		1553
<p> ARG GLN TYR ASP SER LYS ILE LEU ILE GLU GLN ALA VAL SER GLY CYS GLU VAL GLY CYS ALA VAL LEU </p>		1614
<p> AGA CAA TAT GAC AGC AAA ATC TTA ATT GAG CAG GCT GTT TCG GGC TGT GAG GTC GGT TGT GCG GTA TTG </p>		1735
<p> GLY ASP SER ALA ALA LEU VAL VAL GLY GLU VAL ASP GLN ILE ARG LEU GLN TYR GLY ILE PHE ARG ILE </p>		1769
<p> GGA AAC AGT GCC GCG TTA GTT GTT GGC GAG GTG GAC CAA ATC AGG CTG CAG TAC GGA ATC TTT CGT ATT </p>		
<p> HIS GLN GLU VAL GLU PRO GLU LYS GLY SER GLU ASP ALA VAL ILE THR VAL PRO ALA ASP LEU SER ALA </p>		
<p> CAT CAG GAA GTC GAG CCG GAA AAA GGC TCT GAA AAC GCA GTT ATA ACC GTT CCC GCA GAC CTT TCA GCA </p>		
<p> GLU GLU ARG GLY ARG ILE GLN GLU THR ALA LYS LYS ILE TYR LYS ALA LEU GLY CYS ARG GLY LEU ALA </p>		
<p> CAG GAG CGA GGA CGG ATA CAG GAA ACG GCA AAA AAA ATA TAT AAA GCG CTC GGC TGT AGA GGT CTA GCC </p>		
<p> ARG VAL ASP MET PHE LEU GLN ASP ASP GLY ARG ILE VAL LEU ASP GLU VAL ASP THR LEU PRO GLY PHE </p>		
<p> CGT GTG GAT ATG TTT TTA CAA GAT AAC GGC CGC ATT GTA CTG AAC GAA GTC AAT ACT CTG CCC GGT TTC </p>		
<p> THR SER TYR SER ARG TYR PRO ARG MET MET ALA ALA ALA GLY ILE ALA LEU PRO GLU LEU ILE ASP ARG </p>		
<p> ACG TCA TAC AGT CGT TAT CCC CGT ATG ATG GCC GCT GCA GGT ATT GCA CTT CCC GAA CTG ATT GAC CGC </p>		
<p> LEU ILE VAL LEU ALA LEU LYS GLY </p>		
<p> TTG ATC GTA TTA GCG TTA AAG GGG TGA TAA GCATGGAATAGGATTACTTTTTAGATGAAATAGTACACGGTGTTCTGTT </p>		
<p> GGGACGCTAAATATGCCACTTGGGATAATTTACCGGAAAACCGTTGACGGTTATGAAGTAAATCGCATTGTAGGGACATACGAGTTGGC </p>		
<p> TGAATCGCTTTTGAAGGCAAAAGAACTGGCTGCTACCCAAGGGTACGGATTGCTTCTATGGGACGGTTACCGTCCTAAGCGTGCTGTAAC </p>		
<p> TGTTTTATGCAATGGGCTGCACAGCCGGAATAACCTGACAAAGGAAAGTTATTATCCCAATATTGACCGAACTGAGATGATTTCAAAAAG </p>		
<p> <i>Exon V</i> GGATACGTGGCTTCAAAATCAAGCCATAGCCGCG </p>		

Fig. 6